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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/809,121

03/24/2004

Hong-Da Liu

25313-1010

7692

24504

7590

12/22/2005

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EXAMINER

QI, ZHI QIANG

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 12/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/809,121

Applicant(s)

LIU, HONG-DA

Examiner

Mike Qi

Art Unit

2871

*mu*

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 09 November 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 18-38 is/are pending in the application.
- 4a) Of the above claim(s) 20-38 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 18 and 19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Election/Restrictions*

1. Claims 1-17 have been cancelled; claims 20-38 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected claims according to the elected Group II and species I(a) in the restriction requirement; there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on Nov.9, 2005.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 2004/0183960 A1 (Kim et al).

Regarding claim 18, Kim discloses (paragraphs 0037-0050; Figs.3-5) that a dual-sided flat panel display (330) having a first and second light source module (310,320), two substrate (331,332) between the first and second light source modules (310, 320), and a driving array (TFT array) on an inner side of the TFT substrate (332), and the image display on the rear side of the LCD by controlling the voltage supplied to the liquid crystal panel of the dual LCD device when supply power to the first light module (310), and the image display on the front side of the LCD by controlling the voltage

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supplied to the liquid crystal panel of the dual LCD device when supply power to the second light module (320) .

Although Kim does not explicitly disclose that the operating method of the dual-sided flat panel display such as the operating order, Kim teaches (paragraphs 0043-0050) that if a first light unit (310) is turned ON, the image would be displayed on the rear side of the LCD, and if a second light unit (320) is turned ON, the image would be displayed on the front side of the LCD, and the controlling of the voltage supplied to the liquid crystal panel (330) of the LCD device would determine whether to supply power to the first light unit (310) and whether to supply power to the second light unit (310).

Therefore, the skilled in the art would be able to control the first and the second light source modules to supply power repeating the ON and OFF for the first and the second light source modules, so as to obtain high quality images displayed on the front side and the rear side of the LCD by using single light crystal panel (paragraph 0050).

Therefore, it would have been obvious to those skilled in the art at the time the invention was made to modify the dual-sided liquid crystal display panel of Kim with the teachings of controlling the first and second light units to supply power repeating ON and OFF as taught by Kim, since the skilled in the art would be motivated for obtaining high quality images displayed on the front side and the rear side of the LCD by using single light crystal panel (paragraph 0050).

Regarding claim 19, Kim discloses (paragraphs 0037-0038) that the driving array for the liquid crystal display having thin film transistor (TFT) formed at a position defined by the gate bus line and the data bus line that would be TFT array.

**Conclusion**

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.


5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Qi whose telephone number is (571) 272-2299.

The examiner can normally be reached on M-T 8:00 am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mike Qi  
December 20, 2005

  
ANDREW SCHECHTER  
PRIMARY EXAMINER